

Officer In Charge of Construction, Naples





Officer In Charge of Construction, Naples Overview - Support Site

Complete support city

- Replaces inadequate Agnano facilities
- 124 buildings, 200 acres, 2M SF (acquiring add'l FP/hsg)
- Rural, uncongested setting
- Fully contained security perimeter
- Reliable utility systems
 Water supply, HV substation, Nat Gas
- Design, Build, Lease Maintain Program Value: \$440M
- 100% Private Financing

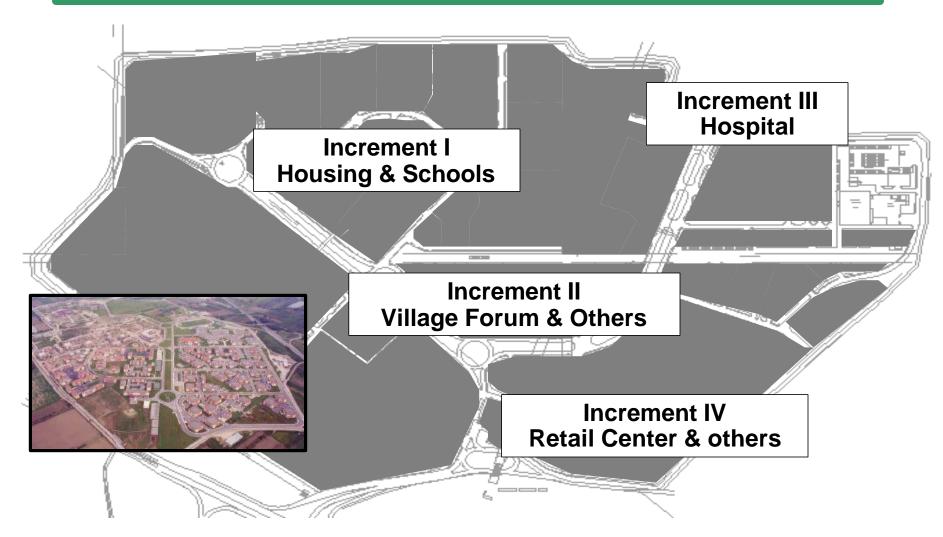


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Officer In Charge of Construction, Naples Overview





Officer In Charge of Construction, Naples Project Information



Hospital:

- 20 Beds, 577 Rooms, 4 OR's
- MRI, CT Scan, Digital Imaging
- Dedicated Energy Plant



Design Build / Lease / Maintenance

Contractor: JV (Impregilo/Mirabella)

FY03 BUYOUT: €40 M

Medical Equip/Turn Key/Via Contractor



Fob/Mar 03



Officer In Charge of Construction, Naples Project Information

Construction Provided Systems



Mechanical

- 3 Steam Boilers (@1635 kw)
- 3 Chillers (@1235 kw)
- HVAC 22 zones, incl med'l+ Complex Digital Control
- (7) Water Treatment Systems

Electrical

- MV Substation
- 3 Diesel Gene (@800kw)
- Specialty Systems: security, nurse call, PA

Medical

- OR Surgical Columns
- Cent Medical Gas System
- Sterilizers
- Audio Booths
- Lab Eqpt & Hoods



Officer In Charge of Construction, Naples Project Information

Medical Equipment Turn Key

\$9.0M Program

General Electric Radiology (MRI, CT-Scan, 3 X-Ray, Mammo)

Cisco IT Infrastructure

* fully integrated with Digital radiology

Drager Surgical & Anesthesia Eqpt, In-patient Eqpt

Desktop & Wallhung Eqpt (Dental, Med Clinics, Eye Clinic, Labs, ER, Cardio monitoring, etc)



Officer In Charge of Construction, Naples Commissioning Goals

- 1. Construction provided systems fully functional @ BOD.
- 2. Turn-key medical equipment accepted @ BOD.
- 3. Hospital staff fully trained @ BOD.
- 4. Contractor provided O&M Program @ BOD.
- 5. Government furnished furniture installed @ BOD.
- 6. Mock Patient Days @ BOD + 1 week and + 2 weeks
- 7. Fully functional Hospital @ BOD + 4 weeks



Officer In Charge of Construction, Naples Early Access

• Move-in Navy Provided Furniture

BOD – 4 months

• Install/Test Medical Equipment

Pre-BOD

Navy Training on Medical Equipment

BOD

Post-BOD Hospital Transition:

BOD + 4 weeks

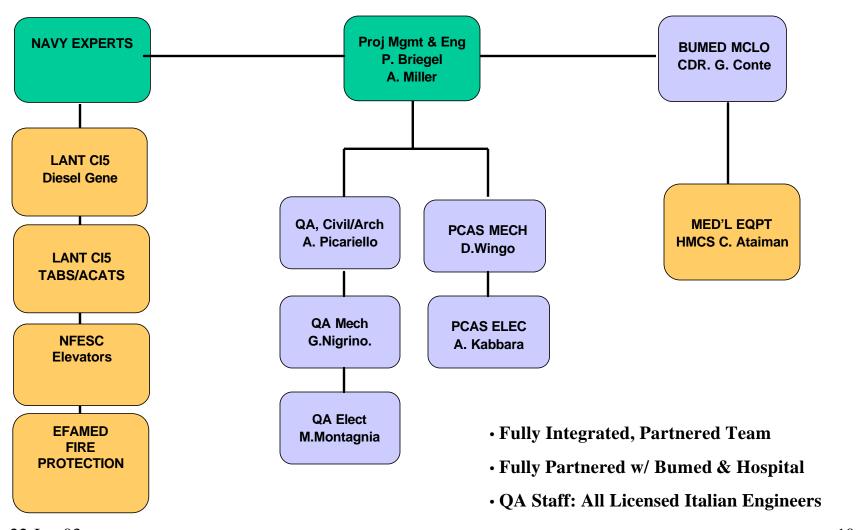


Officer In Charge of Construction, Naples Commissioning Program Elements

- 1. The Organization
- 2. System Testing & Acceptance
- 3. Technical Documentation & training per specs
- 4. O&M 12 Month Prove-out Period
- 5. Turn-key medical equipment support
- 6. Planning Group (OICC, BUMED, Hospital)



Officer In Charge of Construction, Naples The Organization





Officer In Charge of Construction, Naples System Testing & Acceptance

- 1. Test Plan Development (Contractor & OICC)
 - Confirm design requirement & contractor understanding
 - Consider scheduling and Navy expert support
- 2. NAVFAC Expert Support
 - Submittal Review
 - In Progress Site Visits
 - Test Participation
- 3. OICC staff: 100% participation of all equipment and systems level testing.
- 4. Project Goal: Acceptance (BOD) only if all hospital mission-related systems function per design.

***** No Acceptance = \$0 Payment



Officer In Charge of Construction, Naples System Testing & Acceptance

5. Expected Vulnerabilities

- Fire Protection
- Elevators
- HVAC TABS/ACATS
- Data Network Integration

- Diesel Generators
- Medical Systems
- Gen'l Mech/Elec
- 6. Design: Fully detailed, incl testing req't

Ex: HVAC TABS/ACATS

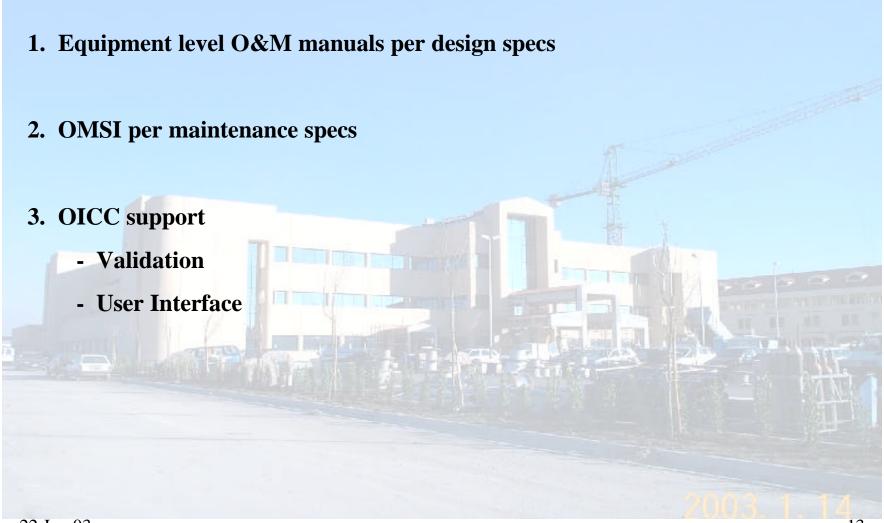
- Control Diagrams Sequence of Ops
- Test Requirements Qualifications!!!

7. Partnered Agreement:

- Contractor to utilize highest quality European vendors and consider needed technical support. Ex: TABS Agency (Same as Capo)
- Maximize cooperation with Navy, incl experts.



Officer In Charge of Construction, Naples Technical Documentation





Officer In Charge of Construction, Naples O&M Program

Comprehensive O&M Program per Maintenance Specs 1-year base with (2) 1-year options

OICC Role

- Program Coordinator Contract Admin
- Customer Interface System & Equipment Eng'g support
- For 6 months: QA of contractor O&M efforts

O&M Program Elements

- Constructor 1-year Systems Operational Prove-out Period Daily: on-site, system checks, recurring work, testing.

 Specialty system support via manufacturers
- Preventive Maintenance (complete facility)
- Emergent repairs (service calls)
- Annual certs (boilers, elevators, medical gas, sterilizers)



Officer In Charge of Construction, Naples Turn-key Medical Equipment Support

Contractor provided (Impregilo). Similar to private industry.

State of the art European medical equipment

- EU subsidiaries of Gen'l Elec, Cisco, AGFA, Phillips, Kavo, Castle, etc
- Cost competitive (local market)
- In-theater maintenance support

Design, test, integrate into Hospital Pre-BOD

- Post-BOD transition time reduced from 6 months to 4 weeks



Officer In Charge of Construction, Naples Planning Group (OICC, BUMED, Hospital)

Mission: Facilitate smooth transition to new Hospital

Members: OICC, Hospital, BUMED, PW

Typical coordination efforts

- Lease Issues
- Permits
- Maintenance requirements
- Services Contract requirements (trash, janitorial, utilities, fuel)
- Base-wide system initiatives (security, fire, phone, etc)
- Certifications (JACHO, local authorities)
- Funding Issues
- Move-in considerations (equipment, training, storage)
- Hospital Issues (helo-pad, parking, grand opening, lodging)



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Recommendations

- 1. Incorporate O&M Prove-out Period in design docs
 - Tailor support/duration to project needs
 - Consider Public Works customers needs
- 2. Consider Equipment Turn-key Procurentent
 - Source Selection yields quality, specialized contractors
 - Complex system integration benefits ||
 - Reduced transition time & post-BOD equipment retrofit
- 3. Extend ROICC role to include post-BOD transition
 - Contract admin
 - Customer Interface
 - Technical support

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